

**Production - Natural Gas STAR Annual Report - 2005**

**Company Information**

Company Name: Newfield Exploration Company  
Gas STAR Contact: [REDACTED]  
Title: [REDACTED]  
Address: [REDACTED]  
City: [REDACTED]  
State: [REDACTED]  
Zip: [REDACTED]  
Phone: [REDACTED]  
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E-mail: [REDACTED]



Via online  
4/3/06

Company Information Updated: No

**Activities Reported**

BMP1: Yes BMP2: Yes BMP3: Yes

Total Methane Emission Reductions Reported This Year: 127,459

Previous Years' Activities Reported: No

**Period Covered by Report**

From: 01/01/2005

To: 12/31/2005

**Additional Comments**

Entered into Accers  
DH - Entered into ISTAR - 4/21/06  
DF - QA/QC 6/12/06

## Production - Natural Gas STAR Annual Report - 2005

Newfield Exploration Company

BMP1: Identify and Replace High-Bleed Pneumatic Devices

### Current Year Activities

#### A. Facility Summary

Number of devices replaced this reporting period: 180 devices ✓

Percent of system now equipped with low/no-bleed units: 90 % ✓

#### B. Cost Summary

Estimated cost per replacement (including equipment and labor): \$ \_\_\_\_\_

#### C. Methane Emissions Reduction

Method Used: Calculation Using Default ✓

Data Source: Not Applicable

Methane Emissions Reduction: 22,320.00 Mcf/year ✓

#### D. Duration of Activity

Number of years that methane emissions reductions will be realized: 7 years ✓

#### E. Total Value of Gas Saved

Value of Gas Saved: \$ 111,600.00 ✓

\$ / Mcf used: \$ 5.00 ✓

#### F. Planned Future Activities

Number of high-bleed devices to be replicated next year: \_\_\_\_\_ devices

### Previous Years' Activities

Year	Number of Devices	Total Cost * (\$)	Estimated Reductions (Mcf/Yr)	Value of Gas Saved (\$)

\* Total cost of replacements (including equipment and labor)

### Additional Comments

## Production - Natural Gas STAR Annual Report - 2005

Newfield Exploration Company

BMP2: Install Flash Tank Separators on Glycol Dehydrators

### Current Year Activities

#### A. Facility Summary

Number of flash tank separators installed this reporting period: \_\_\_\_\_ flash tanks

Percent of dehydrators in system equipped with flash tank separators: \_\_\_\_\_ %

#### B. Cost Summary

Estimated cost per flash tank separator replacement (including equipment and labor): \$ \_\_\_\_\_

#### C. Methane Emissions Reduction

Method Used: **Standard Calculation**

Data Source: **Field measurement**

Methane Emissions Reduction: \_\_\_\_\_ Mcf/year

Flash Tank Installation Number	TEG circulation rate (gal/hr)	Methane entrainment rate (scf/gal)	Hours of operation (hrs/yr)

Total # Flash Tanks Installed: **2**

#### D. Duration of Activity

Number of years that methane emissions reductions will be realized: **10 years**

#### E. Total Value of Gas Saved

Value of Gas Saved: \$ \_\_\_\_\_

\$ / Mcf used: **\$ 3.00**

#### F. Planned Future Activities

Number of flash tank separators to be installed next year: \_\_\_\_\_ flash tanks

### Previous Years' Activities

Year	# of Flash Tank Separators Installed	Total Cost * (\$)	Estimated Reductions (Mcf/Yr)	Value of Gas Saved (\$)

\* Total cost of installations (including equipment and labor)

Additional Comments

## Production - Natural Gas STAR Annual Report - 2005

Newfield Exploration Company  
BMP3: Partner Reported Opportunities (PROs)  
Install capillary strings

### Current Year Activities

#### A. Description of PRO

Installed a warranted ✓

#### B. Level of Implementation

Number of units installed: 3 units ✓

#### C. Methane Emissions Reduction

Methane Emissions Reduction: 21,537.00 Mcf/year ✓

Basis for the emissions reduction estimate: Actual field measurement ✓

#### D. Duration of PRO

Number of years that methane emissions reductions will be realized: 1 years

#### E. Cost Summary

Estimated cost of implementing the PRO (including equipment and labor): \$ \_\_\_\_\_

#### F. Total Value of Gas Saved

Value of Gas Saved: \$ 107,685.00 ✓

\$ / Mcf used: \$ 5.00

#### G. Planned Future Activities

✓ To what extent do you expect to implement this PRO next year?: As warranted

### Previous Years' Activities

Year	Frequency of practice or # of Installations	Total Cost * (\$)	Estimated Reductions (Mcf/Yr)	Value of Gas Saved (\$)
1990				

## Production - Natural Gas STAR Annual Report - 2005

Newfield Exploration Company

BMP3: Partner Reported Opportunities (PROs)

Install capillary strings

1991
1992
1993
1994
1995
1996
1997
1998
1999
2000
2001
2002
2003
2004

\* Total cost of practice/activity (including equipment and labor)

**Additional Comments**

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## Production - Natural Gas STAR Annual Report - 2005

Newfield Exploration Company  
BMP3: Partner Reported Opportunities (PROs)  
Install condenser on glycol vent

### Current Year Activities

#### A. Description of PRO

Install condensers on all dehy with a capacity 3 million throughput or more ✓

#### B. Level of Implementation

Number of units installed: 9 units ✓

#### C. Methane Emissions Reduction

Methane Emissions Reduction: 9,365.00 Mcf/year ✓

Basis for the emissions reduction estimate: Other ✓

Calculated using GlyCalc 3.0

#### D. Duration of PRO

Number of years that methane emissions reductions will be realized: 10 years ✓

#### E. Cost Summary

Estimated cost of implementing the PRO (including equipment and labor): \$ 15,000 ✓

#### F. Total Value of Gas Saved

Value of Gas Saved: \$ 28,095.00 ✓

\$ / Mcf used: \$ 3.00

#### G. Planned Future Activities

To what extent do you expect to implement this PRO next year?: As warranted ✓

### Previous Years' Activities

Year	Frequency of practice or # of Installations	Total Cost * (\$)	Estimated Reductions (Mcf/Yr)	Value of Gas Saved (\$)
1990				

## Production - Natural Gas STAR Annual Report - 2005

Newfield Exploration Company

BMP3: Partner Reported Opportunities (PROs)

Install condenser on glycol vent

1991

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1997

1998

1999

2000

2001

2002

2003

2004

\* Total cost of practice/activity (including equipment and labor)

**Additional Comments**

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## Production - Natural Gas STAR Annual Report - 2005

Newfield Exploration Company  
BMP3: Partner Reported Opportunities (PROs)  
Install flares

### Current Year Activities

#### A. Description of PRO

Installed flares on central facilities that were uneconomical to capture ✓

#### B. Level of Implementation

Number of units installed: 2 units ✓

#### C. Methane Emissions Reduction

Methane Emissions Reduction: 4,852.00 Mcf/year ✓

Basis for the emissions reduction estimate: Other ✓

Flash equilibrium analysis of tank vapors

#### D. Duration of PRO

Number of years that methane emissions reductions will be realized: 10 years ✓

#### E. Cost Summary

Estimated cost of implementing the PRO (including equipment and labor): \$ \_\_\_\_\_

#### F. Total Value of Gas Saved

Value of Gas Saved: ~~\$24,260.00~~ ✓ *Nothing saved it is flared*

\$ / Mcf used: \$ 5.00 ✓

#### G. Planned Future Activities

To what extent do you expect to implement this PRO next year?: As needed ✓

### Previous Years' Activities

Year	Frequency of practice or # of Installations	Total Cost * (\$)	Estimated Reductions (Mcf/Yr)	Value of Gas Saved (\$)
1990				



## Production - Natural Gas STAR Annual Report - 2005

Newfield Exploration Company

BMP3: Partner Reported Opportunities (PROs)

Install flares

1991

1992

1993

1994

1995

1996

1997

1998

1999

2000

2001

2002

2003

2004

\* Total cost of practice/activity (including equipment and labor)

Additional Comments

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## Production - Natural Gas STAR Annual Report - 2005

Newfield Exploration Company

BMP3: Partner Reported Opportunities (PROs)

Install plunger lift systems in gas wells

### Current Year Activities

#### A. Description of PRO

Installed to eliminate venting ✓

#### B. Level of Implementation

Number of units installed: 12 units ✓

#### C. Methane Emissions Reduction

Methane Emissions Reduction: 43,171.00 Mcf/year ✓

Basis for the emissions reduction estimate: Actual field measurement

#### D. Duration of PRO

Number of years that methane emissions reductions will be realized: 5 years - entered as 1 yr.

#### E. Cost Summary

Estimated cost of implementing the PRO (including equipment and labor): \$ \_\_\_\_\_

#### F. Total Value of Gas Saved

Value of Gas Saved: \$ 215,855.00 ✓

\$ / Mcf used: \$ 5.00 ✓

#### G. Planned Future Activities

To what extent do you expect to implement this PRO next year?: As warranted ✓

### Previous Years' Activities

Year	Frequency of practice or # of Installations	Total Cost * (\$)	Estimated Reductions (Mcf/Yr)	Value of Gas Saved (\$)
1990				

## Production - Natural Gas STAR Annual Report - 2005

Exploration Company  
Partner Reported Opportunities (PROs)  
Plunger lift systems in gas wells

1991

1992

1993

1994

1995

1996

1997

1998

1999

2000

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2002

2003

2004

\* Total cost of practice/activity (including equipment and labor)

### Additional Comments

Wells only last approximately 5 years in this field

# Production - Natural Gas STAR Annual Report - 2005

Newfield Exploration Company  
BMP3: Partner Reported Opportunities (PROs)  
Perform Green Completions

## Current Year Activities

### A. Description of PRO

Will perform where there is pipeline infrastructure ✓

### B. Level of Implementation

Number of units installed: 8 units ✓

### C. Methane Emissions Reduction

Methane Emissions Reduction: 26,214.00 Mcf/year ✓

Basis for the emissions reduction estimate: Actual field measurement ✓

### D. Duration of PRO

Number of years that methane emissions reductions will be realized: 1 years ✓

### E. Cost Summary

Estimated cost of implementing the PRO (including equipment and labor): \$ \_\_\_\_\_

### F. Total Value of Gas Saved

Value of Gas Saved: \$ 78,642.00 ✓

\$ / Mcf used: \$ 3.00

### G. Planned Future Activities

To what extent do you expect to implement this PRO next year?: As warranted ✓

## Previous Years' Activities

Year	Frequency of practice or # of Installations	Total Cost * (\$)	Estimated Reductions (Mcf/Yr)	Value of Gas Saved (\$)
1990				

## Production - Natural Gas STAR Annual Report - 2005

Newfield Exploration Company

BMP3 : Partner Reported Opportunities (PROs)

Perform Green Completions

1991

1992

1993

1994

1995

1996

1997

1998

1999

2000

2001

2002

2003

2004

\* Total cost of practice/activity (including equipment and labor)

Additional Comments

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Newfield Exploration Company  
Additional Accomplishments

## Production - Natural Gas STAR Annual Report - 2005

April 06, 2006

